

Folder Restructuring & GIT



Ralf Kliemt
Panda Meeting I 2017

Updated folder structure

- **Improve overview**
- **Clean outdated packages**
- **Grey: phased/sourced out, soon**
- **Merged to dev branch Feb. 23**

23 Feb, 2018 27 commits

	fixing some paths for fsim & QA Ralf Kliemt authored 6 days ago		95211926	
	some more macros hardcoded path fixes Ralf Kliemt authored 6 days ago		088acc08	
	drc macro paths fix Ralf Kliemt authored a week ago		94f7f3f0	
	chigen cmake fix that it doesn't recompile each time Ralf Kliemt authored a week ago		26f52890	
	try getting rid of end-of-root erro in QA macros Ralf Kliemt authored a week ago		fad52b24	
	fixing some paths in QA, fixing ROOT segfault upon exit in MasterRun Ralf Kliemt authored a week ago		75ac38b9	
	qa remove qa exit Ralf Kliemt authored a week ago		02b824ac	
	more rich fixing Ralf Kliemt authored a week ago		c6edc925	
	fix rich parameters path Ralf Kliemt authored a week ago		3cb81b13	
	pgenerators linkdef issue solved Ralf Kliemt authored a week ago		dabffcb1	
	field maps moved Ralf Kliemt authored 2 weeks ago		f7fb1c8f	
	compilation fix Ralf Kliemt authored 2 weeks ago		405917e4	
	macro CMake fix Ralf Kliemt authored 2 weeks ago		6b36456e	

/analysis
 /detectors
 /eventdisplay
 /external
 /fastsim
 /field
 /gconfig
 /genfit
 /genfit2
 /genfit2-remote
 /geometry
 /input
 /macro
 /outdated
 /pgenerators
 /pid
 /pnddata
 /PndMCMatchNewLinks
 /softrig
 /timebased
 /tools
 /tutorials

New folder structure

- /analysis**
- /detectors**
- /eventdisplay**
- /fastsim**
- /field**
- /gconfig**
- /genfit2**
- /geometry**
- /input**
- /macro**
- /pgenerators**
- /pid**
- /pnddata**
- /softtrig**
- /timebased**
- /tools**
- /tracking**
- /tutorials**

New folder structure

/analysis



AnalysisTools DalitzGui kfparticle rho

/detectors

/eventdisplay

/fastsim

/field

/gconfig

/genfit2

/geometry

/input

/macro

/pgenerators

/pid

/pnddata

/softtrig

/timebased

/tools

/tracking

/tutorials

New folder structure

/analysis



AnalysisTools DalitzGui kfparticle rho

/detectors



disc drc dsk emc ftof fts gem hyp hypGe
lmd mdt mvd passive rich scitil sds stt

/eventdisplay

/fastsim

/field

/gconfig

/genfit2

/geometry

/input

/macro

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/geometry

/input

/macro



detectors examples master outdated params
production QA soffrig style timeordered tools tracking

/pgenerators

/pid

/pnddata

/soffrig

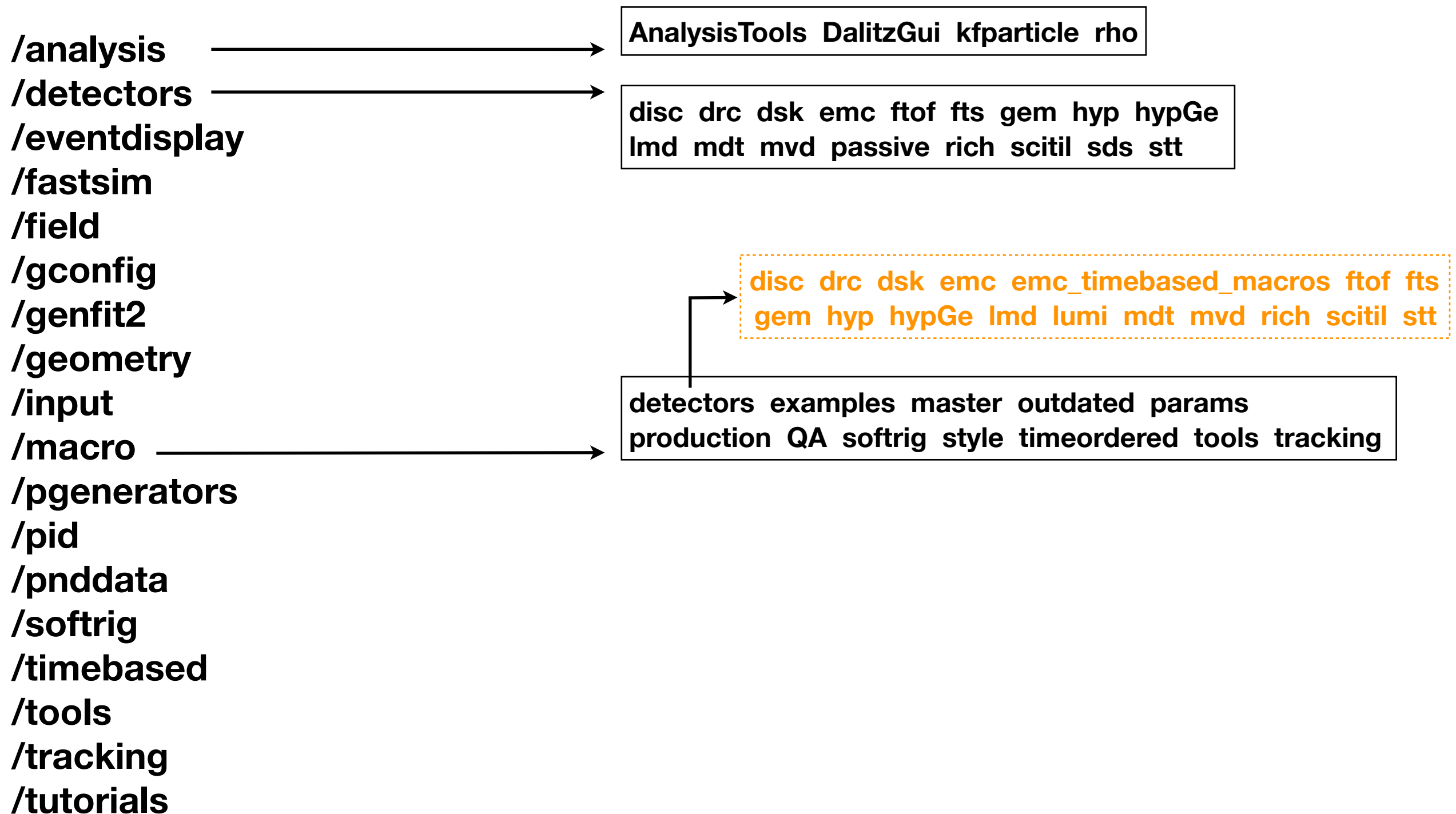
/timebased

/tools

/tracking

/tutorials

New folder structure



New folder structure

/analysis

AnalysisTools DalitzGui kfparticle rho

/detectors

disc drc dsk emc ftof fts gem hyp hypGe
lmd mdt mvd passive rich scitil sds stt

/eventdisplay

/fastsim

/field

/gconfig

/genfit2

/geometry

/input

/macro

detectors examples master outdated params
production QA sofrig style timeordered tools tracking

/pgenerators

chigen DpmEvtGen eventFilter FileReaders GiBuuReader
PndFlukaGen Pythia6 Direct EMFFgenerators EvtGen
FtfEvtGen particleguns PndJRGen

/pid

/pnddata

/sofrig

/timebased

/tools

/tracking

/tutorials

disc drc dsk emc emc_timebased_macros ftof fts
gem hyp hypGe lmd lumi mdt mvd rich scitil stt

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DoxygenExample MasterTasks MVA
PndBurstBuilder PndMQ RadMapTool

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production QA soffrig style timeordered tools tracking

/pgenerators

/pid

/pnddata

/soffrig

/timebased

/tools

DoxygenExample MasterTasks MVA
PndBurstBuilder PndMQ RadMapTool

/tracking

/tutorials

analysis anatask charmonium charmtask cuda
dec13 feb12 geane macro rho rtdb thailand2017

disc drc dsk emc emc_timebased_macros ftof fts
gem hyp hypGe lmd lumi mdt mvd rich scitil stt

A Small GIT Tutorial

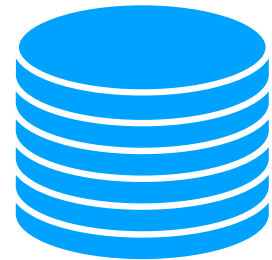
A Small GIT Tutorial

Repositories

pandaatfair.github.io



UserSpace



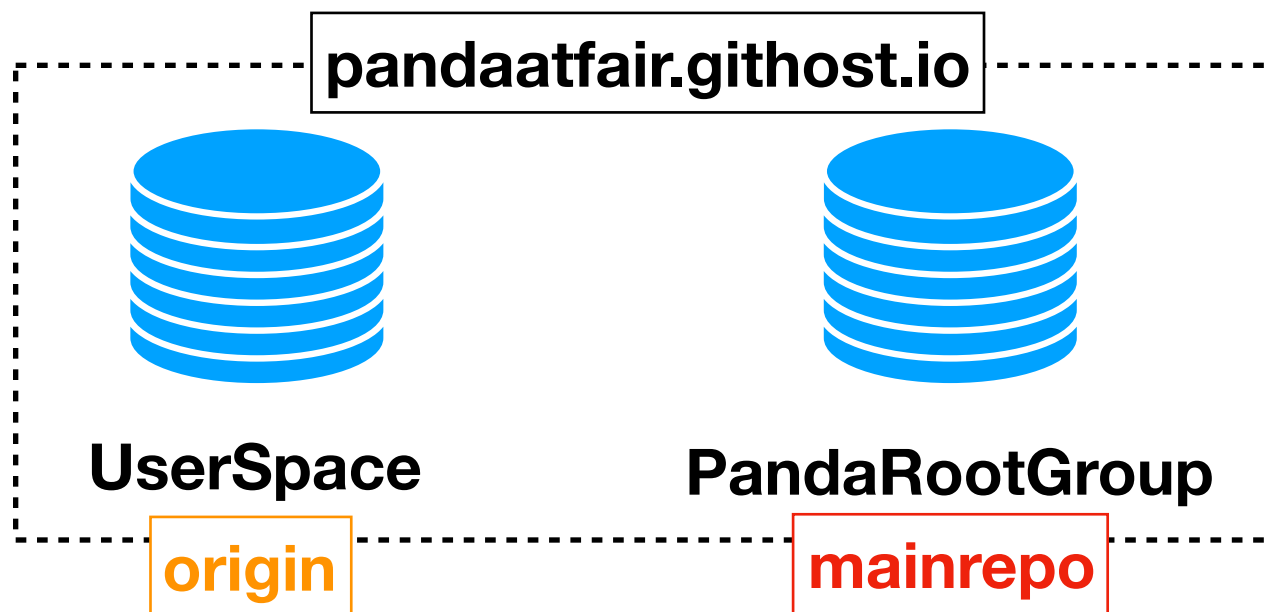
PandaRootGroup



Local Computer

A Small GIT Tutorial

Repositories

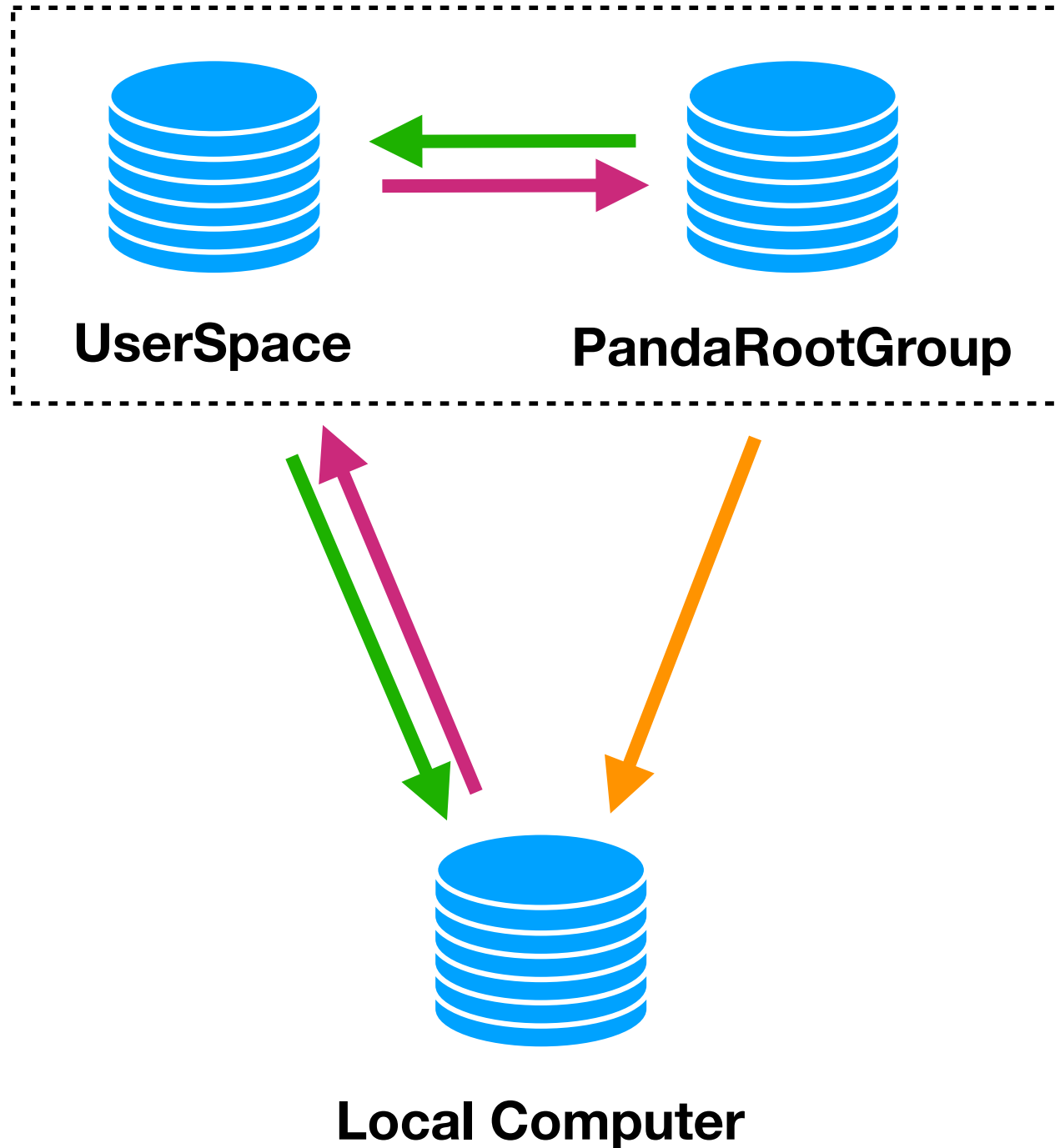


Shortcuts

- **origin:**
...githost.io/<user>/PandaRoot.git
- **mainrepo:**
...githost.io/PandaRootGroup/PandaRoot.git

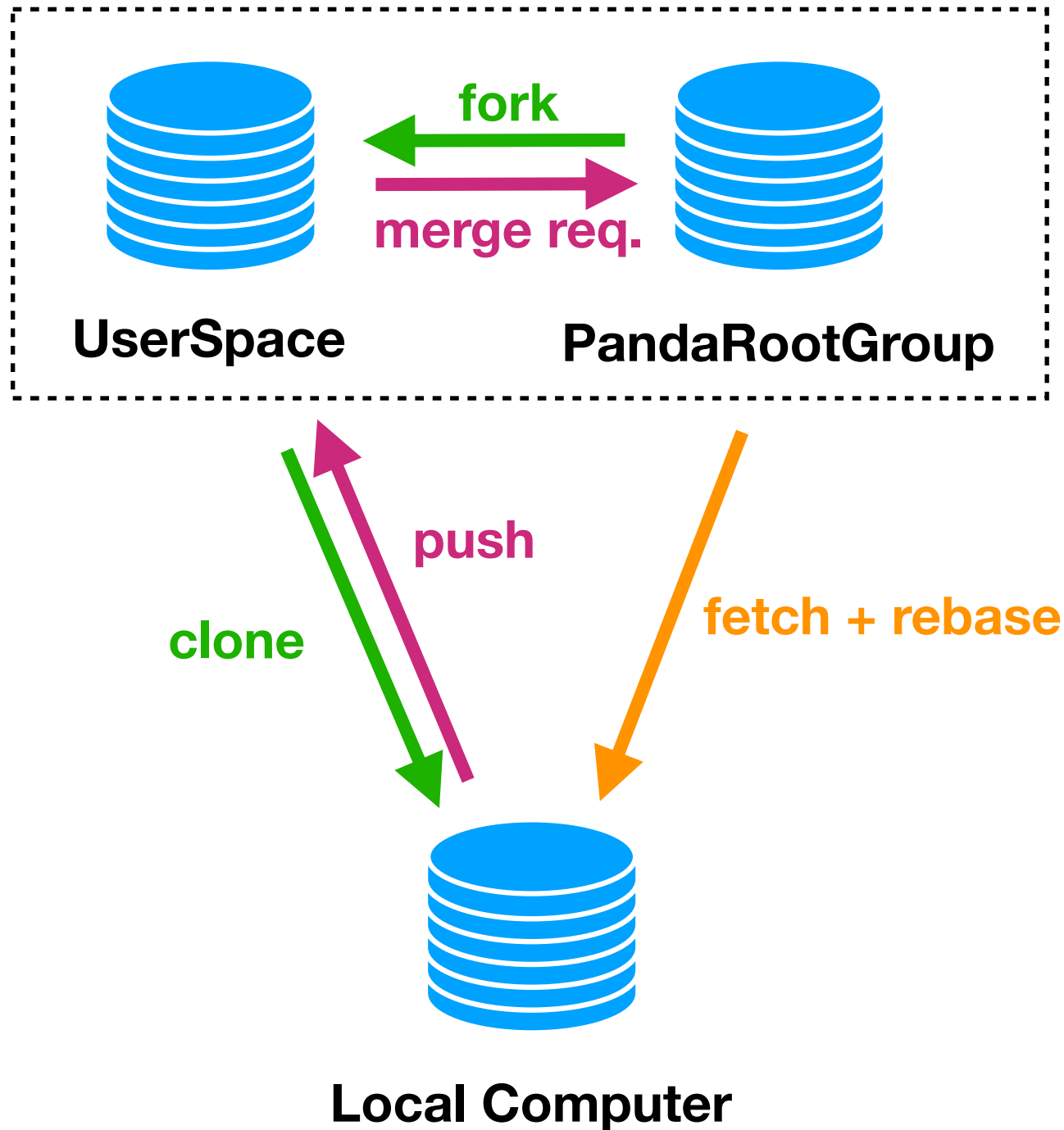
A Small GIT Tutorial

Repositories



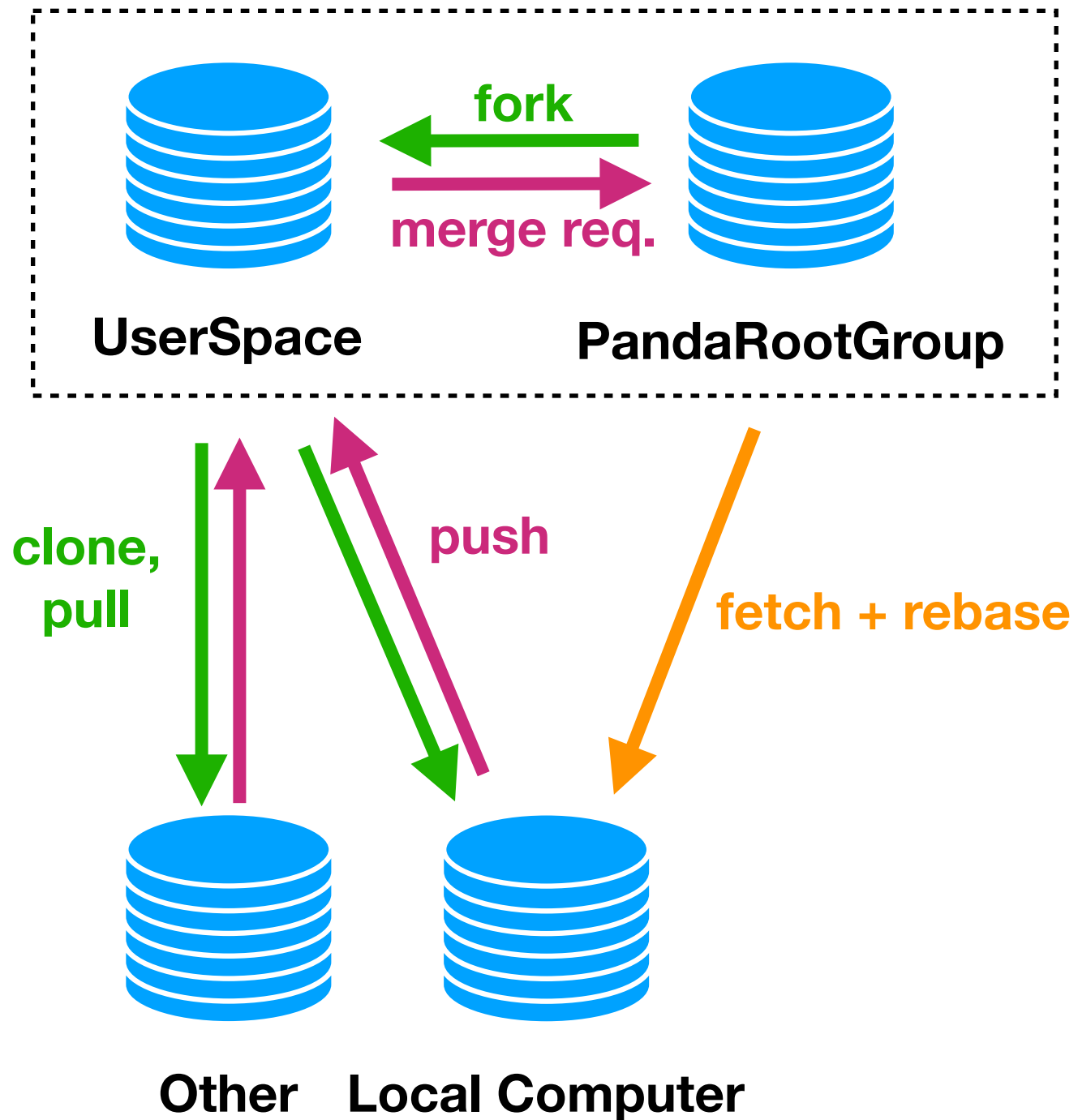
A Small GIT Tutorial

Repositories



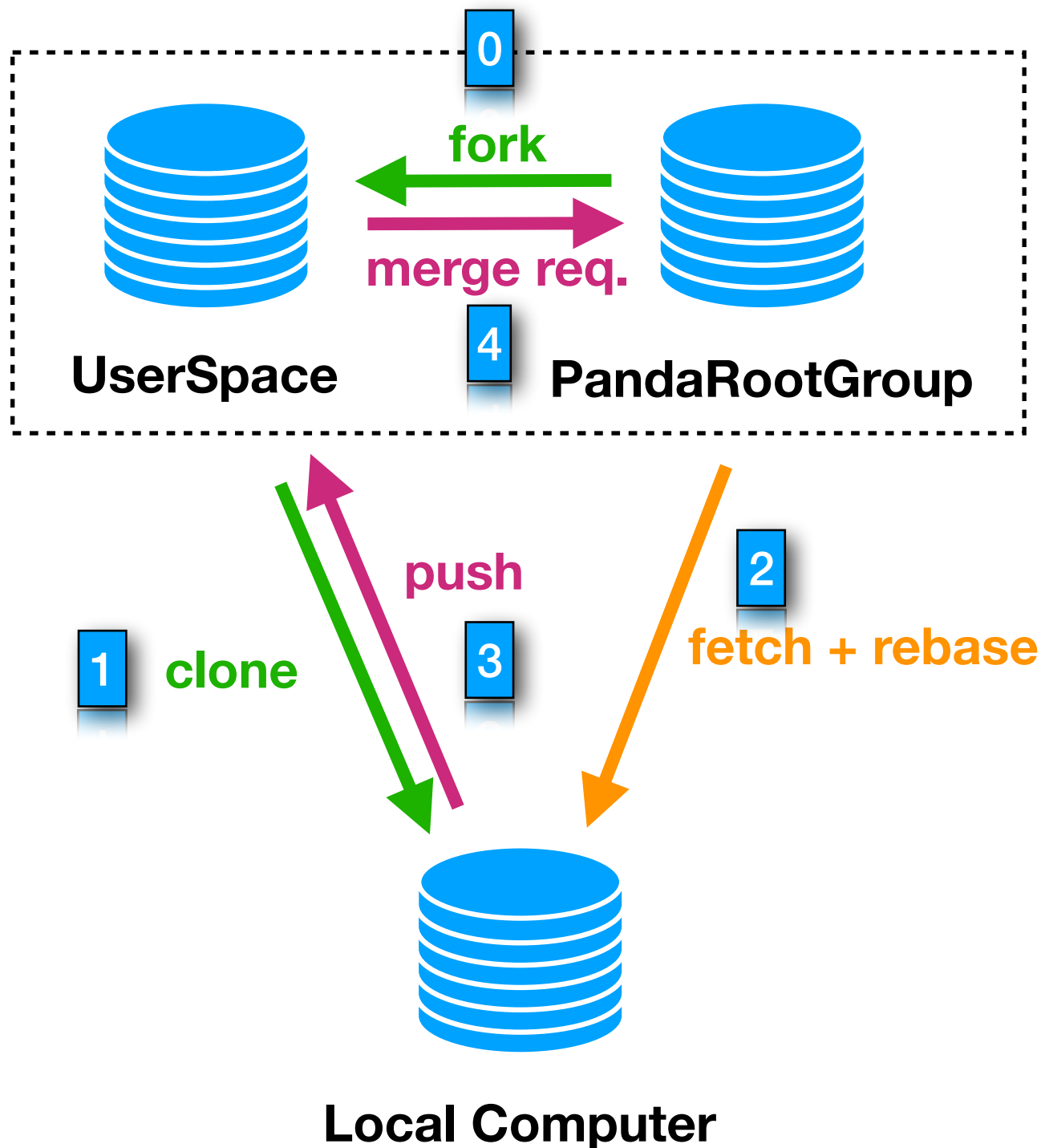
A Small GIT Tutorial

Repositories



A Small GIT Tutorial

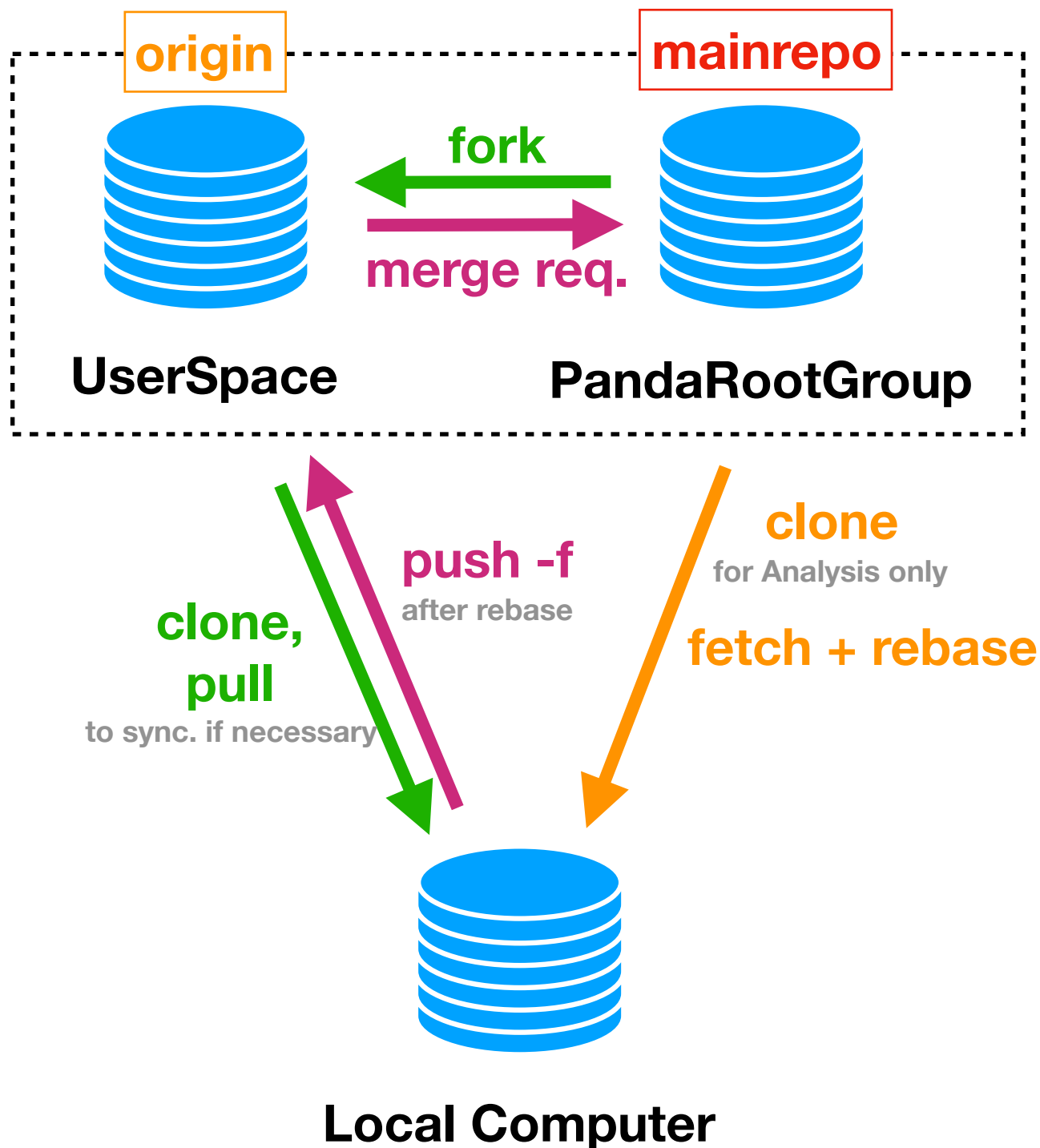
Repositories



- 0** Fork once on the website
- 1** **git clone**
<https://pandaatfair.github.io/<user>/PandaRoot.git>
- 2** **git fetch mainrepo**
don't forget to rebase
- 3** **git push**
after rebase use **git push -f**
- 4** **Create Merge Request on website**

A Small GIT Tutorial

Repositories



0

Fork once on the website

1

git clone

<https://pandaatfair.github.io/<user>/PandaRoot.git>

2

git fetch mainrepo

don't forget to rebase

3

git push

after rebase use git push -f

4

Create Merge Request on website

Shortcuts

- **origin:**
...github.io/<user>/PandaRoot.git
- **mainrepo:**
...github.io/PandaRootGroup/PandaRoot.git

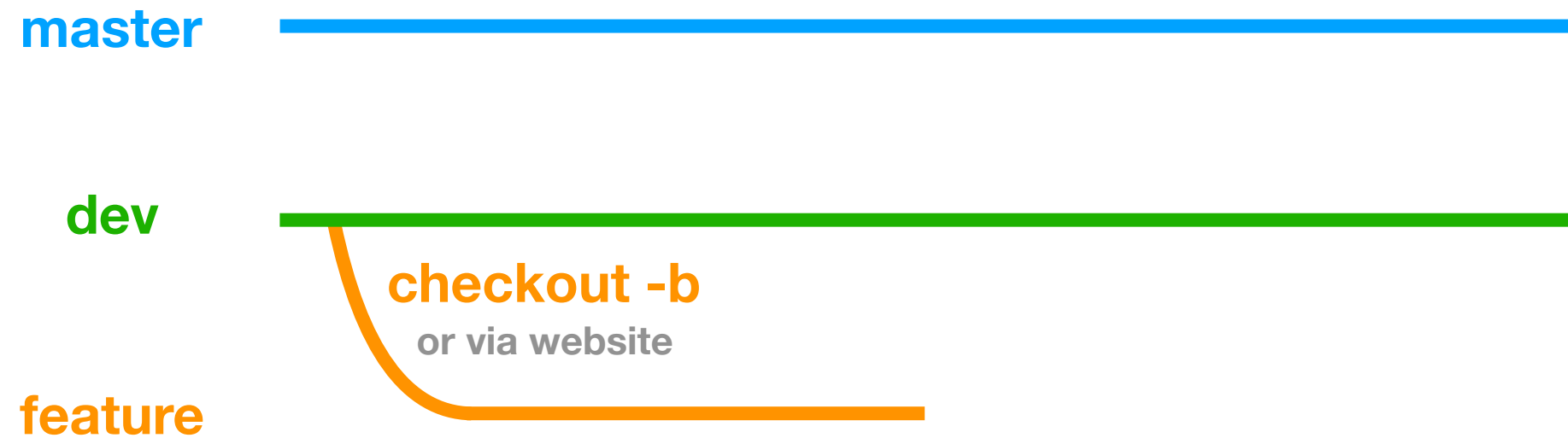
A Small GIT Tutorial

Branches



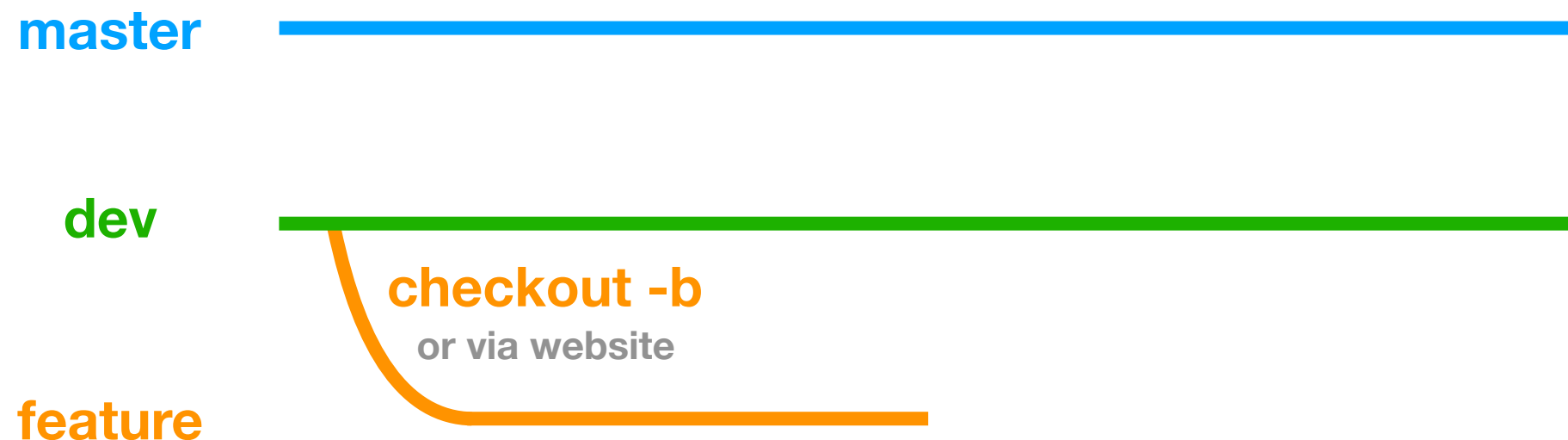
A Small GIT Tutorial

Branches



A Small GIT Tutorial

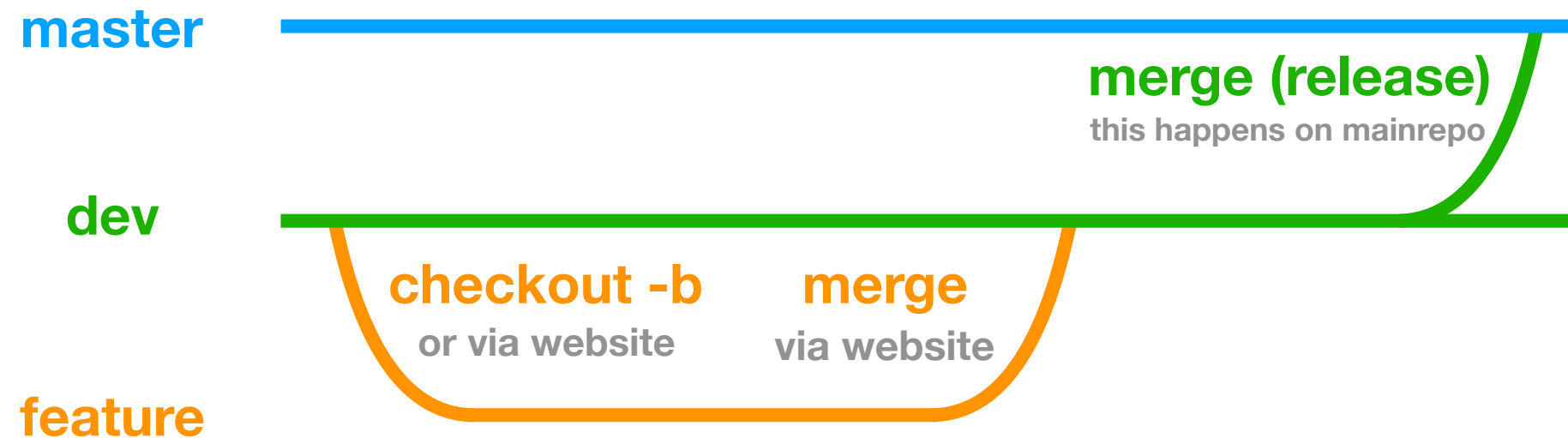
Branches



- **git status**
- **git add <files>**
- **git commit -m "<message>"**
- **git checkout -- <files>**
- **git push origin**

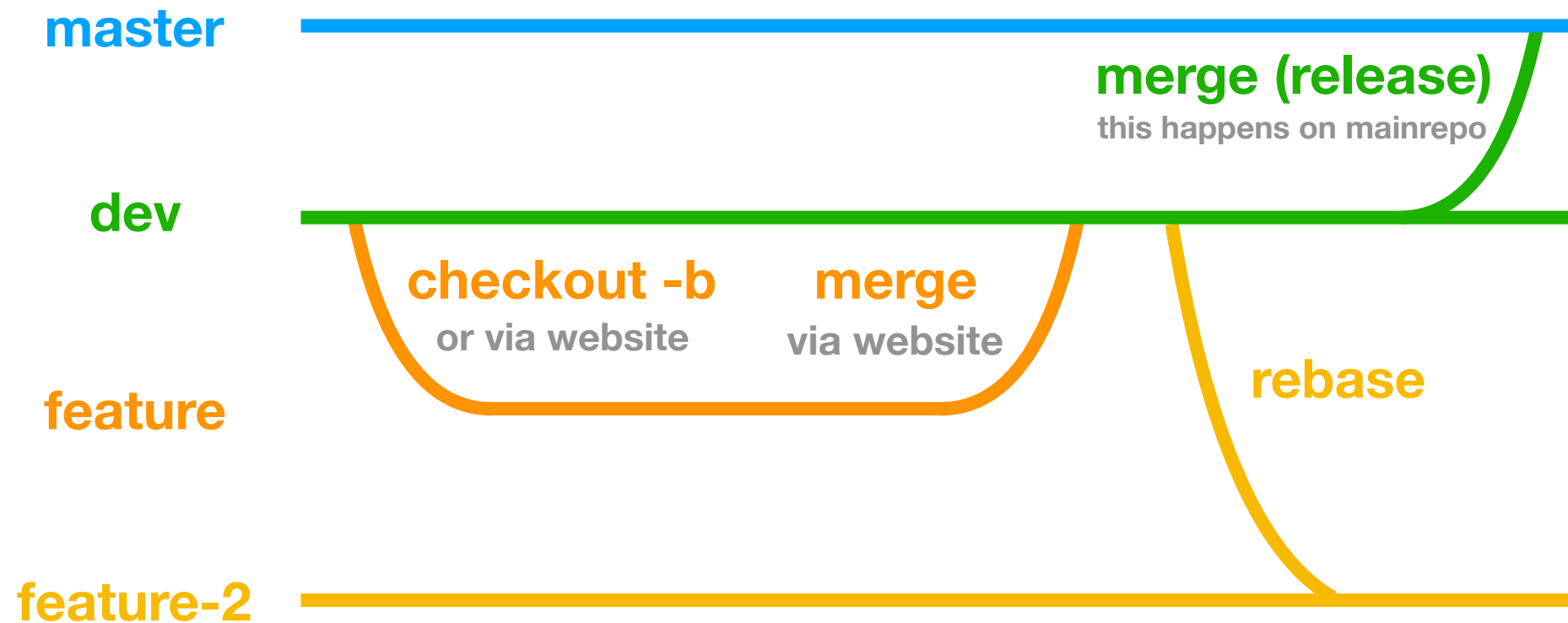
A Small GIT Tutorial

Branches



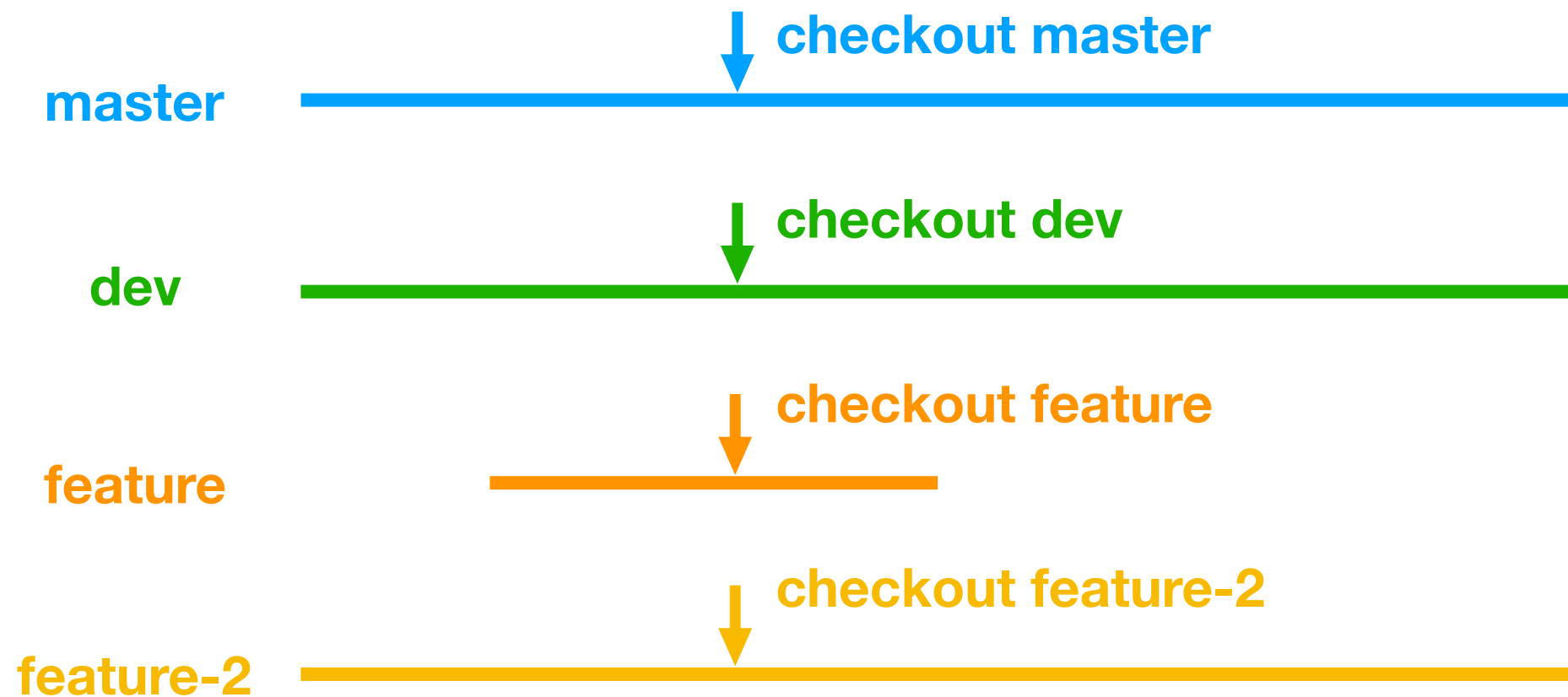
A Small GIT Tutorial

Branches



A Small GIT Tutorial

Jump Branches



A Small GIT Tutorial

Preparation

Development Workflow

A Small GIT Tutorial

Preparation

Create a Fork on the Website (once)

Setup git on each computer (once)

```
git config --global branch.autosetuprebase always
git config --global user.name "FirstName LastName"
git config --global user.email johndoe@example.com
git config --global core.ignorecase false
```

Development Workflow

A Small GIT Tutorial

Preparation

Create a Fork on the Website (once)

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Download

git clone

<https://pandaatfair.github.io/<user>/PandaRoot.git>

git remote add mainrepo

<https://pandaatfair.github.io/PandaRootGroup/PandaRoot.git>

Development Workflow

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Switch to dev (optional)

(git fetch mainrepo)

git checkout -b dev mainrepo/dev

(git push -u origin dev)

Development Workflow

Create feature branch

(git fetch mainrepo)

git checkout -b featureXXX mainrepo/dev

git push -u origin featureXXX

A Small GIT Tutorial

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Switch to dev (optional)

```
(git fetch mainrepo)
git checkout -b dev mainrepo/dev
(git push -u origin dev)
```

Development Workflow

Create feature branch

```
(git fetch mainrepo)
git checkout -b featureXXX mainrepo/dev
git push -u origin featureXXX
```

Update news to feature branch

```
git fetch mainrepo
git checkout featureXXX
git rebase mainrepo/dev
```

A Small GIT Tutorial

Preparation

Create a Fork on the Website (once)

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Development Workflow

Create feature branch

(git fetch mainrepo)

git checkout -b featureXXX mainrepo/dev

git push -u origin featureXXX

Update news to feature branch

git fetch mainrepo

git checkout featureXXX

git rebase mainrepo/dev

Upload feature branch

git push -f origin

More details on panda-wiki.gsi.de/foswiki/bin/view/Computing/PandaRoot

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102

[Merge Requests](#)

0

[CI / CD](#)[Wiki](#)[Snippets](#)[Settings](#)[Collapse sidebar](#)[PandaRootGroup](#) > [PandaRoot](#) > **Details****PandaRoot** ▾[★ Unstar](#)

1

[Fork](#)

13

[HTTPS](#) ▾<https://pandaatfair.githost.>[+](#) ▾[Global](#) ▾[Files \(752 MB\)](#)[Commits \(9,883\)](#)[Branches \(3\)](#)[Tags \(34\)](#)[Changelog](#)[GNU GPLv2](#)[Add Contribution guide](#)[Set up CI](#)[master](#) ▾[PandaRoot /](#)[+](#) ▾[History](#)[Find file](#)**delete version info creation**

Ralf Kliemt authored 2 weeks ago

2a20156d

Name

Last commit

Last update

GenfitTools

removed warnings

11 months ago

PndEventdisplay

Moving ideal track finder to PndTrackers

11 months ago

PndMCMatchNewLinks

Updated PndMCTruthMatch to use GetSortedMC...

7 months ago

PndPropagators/HelixPropagator

removed warnings - last batch of -Wall -Wextra

11 months ago

PndTools

updated readme

4 months ago

PndTrackers

fix to download and properly link VC

2 weeks ago

disc

removed a few warnings

11 months ago

drc

removed warnings - unused parameters in functions

11 months ago



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Groups

Activity

Milestones

Snippets



This project

Search



PandaRoot



Overview

Details

Activity

Cycle Analytics



Repository



Issues

0



Merge Requests

0



CI / CD



Wiki



Snippets



Settings

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Ralf Kliemt > PandaRoot > Details

You pushed to **productionmacros** less than a minute ago

Create merge request



PandaRoot

Forked from PandaRootGroup / PandaRoot

★ Star

0

🍴 Fork

0

HTTPS ▾

https://pandaatfair.githubost.



+ ▾



Global ▾

Files (694.8 MB)

Commits (9,939)

Branches (3)

Tags (33)

Changelog

GNU GPLv2

Add Contribution guide

Set up CI

dev ▾

PandaRoot /

+ ▾

History

Find file



Switch branch/tag



Search branches and tags



Branches

productionmacros

✓ dev

master

Tags

dec17

dev1.1.0



8c1e1a3c



Last update

rs -- fix compilation

6 days ago

6 days ago

6 days ago

6 days ago

a month ago

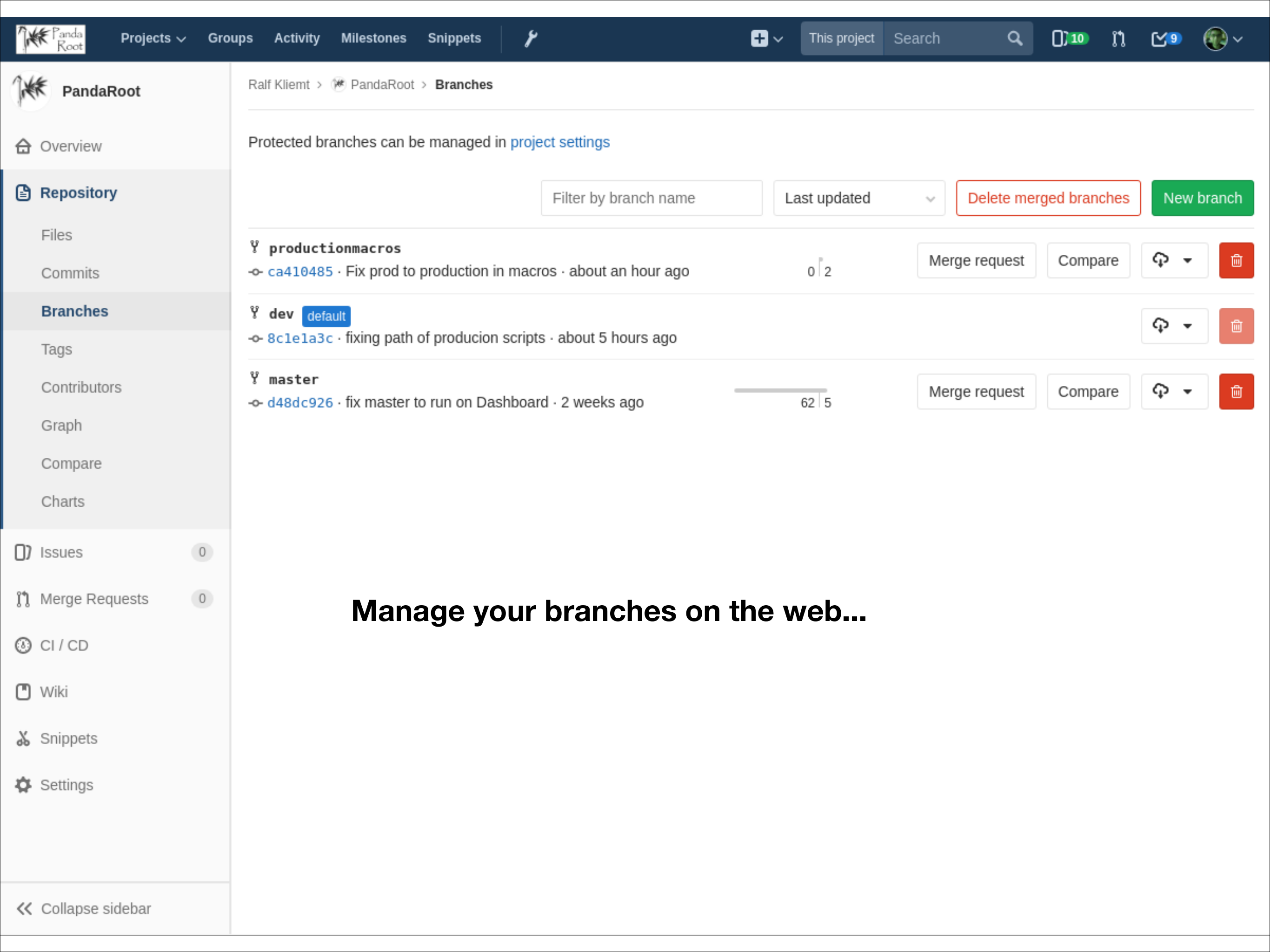
6 days ago

external

some corrections for VC...

fastsim

fixing some paths for fsim & QA





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Activity

Milestones

Snippets



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PandaRoot



Overview



Repository



Issues

0



Merge Requests

0



CI / CD



Wiki



Snippets



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<< Collapse sidebar

Ralf Kliemt > PandaRoot > Merge Requests

New Merge Request

Source branch

ralfk/PandaRoot ▾

productionmacros ▾



Fix prod to production in macros

Ralf Kliemt authored about an hour ago



ca410485



Target branch

PandaRootGroup/PandaR... ▾

dev ▾



fixing path of production scripts

Ralf Kliemt authored about 6 hours ago



8c1e1a3c



Compare branches and continue

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#131 · opened a day ago by Administrator



0

updated a day ago

Store job details in root files#130 · opened a day ago by Ralf Kliemt **Feature** **Framework** **Normal** **Support**

1

updated a day ago

Remove Warnings / ROOT6#128 · opened a week ago by Ralf Kliemt **General** **Normal** **Support**

0

updated a week ago

Track cleaner/merger#127 · opened a week ago by Administrator **Feature** **High** **Tracking**

0

updated a week ago

RICH hardcoded paths#126 · opened a week ago by Ralf Kliemt **Bug** **DIRC/RICH** **High** **Support**

0

updated a week ago

Sort geometry files 0 of 3 tasks completed#125 · opened a week ago by Ralf Kliemt **General** **Normal** **Support**

0

updated a week ago

RadMapTools build process 0 of 1 task completed#124 · opened 2 weeks ago by Ralf Kliemt **General** **Normal** **Recipie/Cmake**

0

updated 2 weeks ago

PndMCMatchNewLinks to FairRoot 0 of 1 task completed#123 · opened 2 weeks ago by Ralf Kliemt **Framework** **General** **Normal**

0

updated 2 weeks ago

Improve MasterTasks 0 of 2 tasks completed#122 · opened 2 weeks ago by Ralf Kliemt **General** **Normal** **Support**

0

updated 2 weeks ago

Recipie for vc 0 of 2 tasks completed#121 · opened 2 weeks ago by Ralf Kliemt © Release I 2018 **General** **Normal** **Recipie/Cmake** **Support**

0

updated 2 weeks ago

Issues assigned to you



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Groups

Activity

Milestones

Snippets



This project

Search



PandaRoot

Overview

Repository

Issues 102

List

Board

Labels

Milestones

Merge Requests 0

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Wiki

Snippets

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PandaRootGroup > PandaRoot > Issues

Open 21

Closed 1

All 22



Edit issues

New issue



Label ~High x

Easy filtering by labels



Created date ▾

Track cleaner/merger

#127 · opened a week ago by Administrator

Feature High Tracking



updated a week ago

RICH hardcoded paths

#126 · opened a week ago by Ralf Kliemt

Bug DIRC/RICH High Support



updated a week ago

Moving to newer version of Genfit2 0 of 5 tasks completed

#89 · opened a month ago by Ralf Kliemt

Feature General High Recipie/Cmake Tracking



updated 2 weeks ago

Possible inconsistency in SttTracking

#84 · opened a month ago by Ralf Kliemt

Bug High Tracking



updated a month ago

Development of Tree Fitter

#78 · opened a month ago by Ralf Kliemt

AnalysisTools Feature High



updated a month ago

e+e- reconstruction errors with Feb17

#73 · opened a month ago by Ralf Kliemt

Bug High Tracking



updated a month ago

Validation of Track-Finding Code

#65 · opened a month ago by Ralf Kliemt

Feature High QA Tracking



updated a month ago

Optimize Secondary Vertex Track-Finder/Fitter

#63 · opened a month ago by Ralf Kliemt

Feature High Tracking



updated a month ago

LMD Track Reconstruction Optimization

#60 · opened a month ago by Ralf Kliemt

Feature High LMD Tracking



updated a month ago

LMD Linear Track Reconstruction

#59 · opened a month ago by Ralf Kliemt

Feature High LMD Tracking



updated a month ago

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102

[List](#)[Board](#)[Labels](#)[Milestones](#)[Merge Requests](#)

0

[CI / CD](#)[Wiki](#)[Snippets](#)[Settings](#)[Collapse sidebar](#)[PandaRootGroup](#) > [PandaRoot](#) > [Issues](#) > #127**Open**

Opened a week ago by Administrator

[Close issue](#)[New issue](#)

Track cleaner/merger



The track finders generate often different tracks with almost the same hits. We need a tool which checks the quality of this tracks and either combines them or throws away the one with the least quality.



0



0

[Create merge request](#)**Write**[Preview](#)**B****I**

"

</>

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☑



Write a comment or drag your files here...

[Markdown](#) and [quick actions](#) are supported[Attach a file](#)[Comment](#)[Close issue](#)**Todo**[Add todo](#)**Assignee**[Edit](#)

No assignee - assign yourself

Milestone[Edit](#)

None

Time tracking

No estimate or time spent

Due date[Edit](#)

No due date

Labels[Edit](#)[Feature](#)[High](#)[Tracking](#)**Confidentiality**[Edit](#)

Not confidential

Lock issue[Edit](#)

Unlocked

1 participant**Notifications**[Subscribe](#)

Reference: PandaRootGroup/P...

[Move issue](#)

Issue Discussion and Management



Thanks for your attention.

A Small GIT Tutorial

Preparation

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Switch to dev (optional)

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Development Workflow

Create feature branch

(git fetch mainrepo)

git checkout -b featureXXX mainrepo/dev

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Update news to feature branch

git fetch mainrepo

git checkout featureXXX

git rebase mainrepo/dev

Upload feature branch

git push -f origin

More details on panda-wiki.gsi.de/foswiki/bin/view/Computing/PandaRoot